

ABSTRACT

An imaging device formed as a CMOS semiconductor integrated circuit having two adjacent pixels in a row connected to a common column line. By having adjacent pixels of a row share column lines, the CMOS imager circuit eliminates half the column lines of a traditional imager allowing the fabrication of a smaller imager. The imaging device also may be fabricated to have a diagonal active area to facilitate contact of two adjacent pixels with the single column line and allow linear row select lines, reset lines and column lines.

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